

Hisense

KF - 5002GWE

SPLIT TYPE AIR CONDITIONER

INSTRUCTION INSTALLATION MANUAL

Hisense Corporation

- Thank you for purchasing or distributing Hisense products.
- Please read this manual carefully before using the appliance.
- Please keep this manual in a safe place.
- Specifications may vary slightly to those indicated due to technical improvements.

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Features

● Novel exterior

Excellent selected material, compact structure, arc streamline, simple line, luxurious and elegant, novel design, representing international prevalent trend.

● Microcomputer controlled operation

Internal microcomputer with powerful function, easy operation and use of remote control unit, air conditioner can automatically adjust the room temperature and humidity without troubling you, give you a pleasant enjoyment.

● Air freshening function

Multi-photocatalyst comprehensive functions, effctely eliminate the soot, bacteria and peculiar smell in the indoor are, provide you with a green and healthy space.

● Automatic adjustment of airflow speed and airflow direction

The airflow of the indoor unit can be set to four modes of AUTO/HIGH/LOW/MUTE, and the airflow from the air conditioner can be blown to each corner of the room through changing the angle of the flap vanes.

● 12 -Hour ON and OFF Timer

This Timer can be set to automatically turn the unit on or off at any time within a 12-hour period.

● Trouble shooting

When it has fault, the microcomputer can self-diagnose and display the reason of the fault, convenient for m a i n t e n a n c e .

● Ultra-mute operation

Excellent flue design, best angle for airflow intake and outlet, enable the airflow to be quiet and smooth with m i n i m u m n o i s e .

● Night energy saving mode

This function can automatically change the room temperature setting, providing you with comfortable environment, saving energy.

PACKING LIST

NO.	NAME	AMOUNT	PACKING LOCATION
1.	OUTDOOR UNIT	1	OUTDOOR
2.	WIRE	1	OUTDOOR
3.	AIR FRESH FILTER	1	OUTDOOR
4.	INDOOR UNIT	1	INDOOR
5.	INSTRUCTION MANUAL	1	INDOOR
6.	REMOTE CONTROL UNIT	1	INDOOR
7.	BATTERY	2	INDOOR
8.	NAIL SPECIAL	6	INDOOR
9.	BOLT SPECIAL	6	INDOOR
10.	WARRANTY CARD	1	INDOOR
11.	COVER	1	INDOOR

Safety Notice



WARNING: Operations displaying this symbol may result in fatal injury.



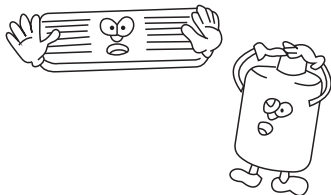
CAUTION: Operations displaying this symbol may result in serious injury.

A. Instructions for installation

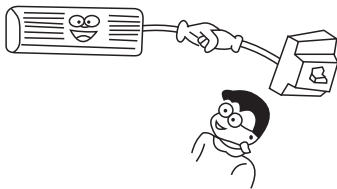
- Installation only by authorized professionals through local distributors.
- Attention should be paid to power source, supply capacity, electrical wire or sockets.



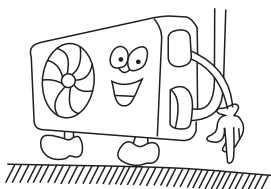
- Never install the appliance in an area near inflammable gas.



- Install a correctly rated circuit breaker.

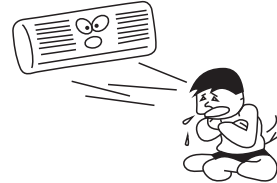


- The appliance must be earthed. Never earth the appliance to a gas or water pipe, lighting rod or phone wire.
- Correctly install tubes to avoid water leakage.

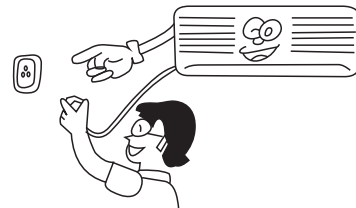


B. Instructions for operation

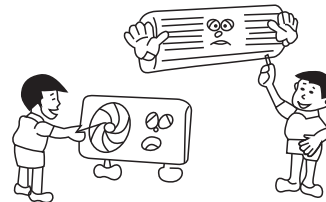
- Do not sit directly in the cold air stream from the appliance, or set excessively low operation temperature.



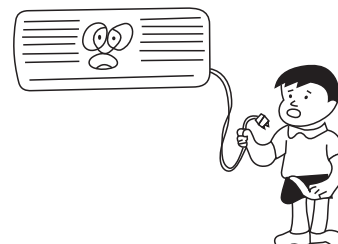
- Connect the appliance, using a separate cable and plug, to a dedicated socket with a capacity not less than 16A.



- Don't insert articles into the air inlet and keep children away from the appliance.

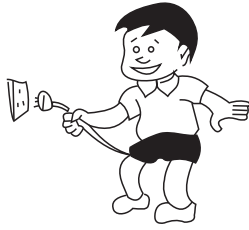


- Use the correctly rated electrical cable and protect from damage or heat sources.

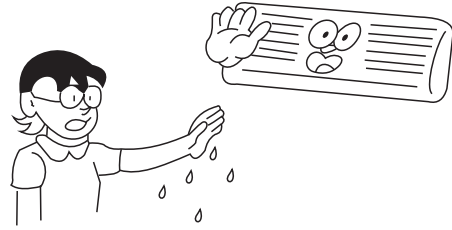


Safety Notice

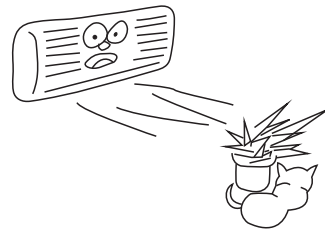
- Avoid unnecessarily plugging and unplugging the appliance.



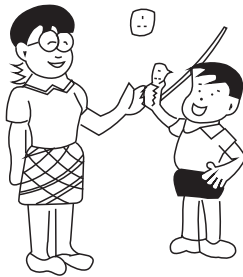
- Never operate the appliance with wet hand.



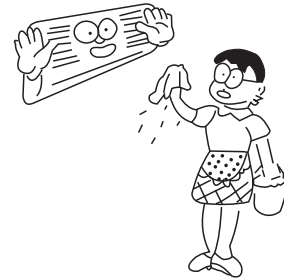
- Keep plants or pets away from the air source.



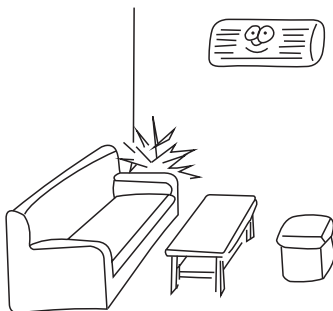
- Be sure that the power plug is clean and completely inserted to the socket.



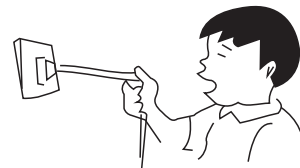
- Do not clean the appliance by washing with water.



- The appliance must only be used for room air conditioning.



- Hold the plug, not the wire, when unplugging the appliance.

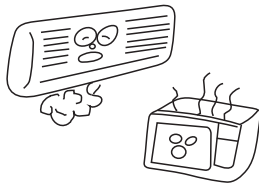


- Do not let the appliance under heavy load.

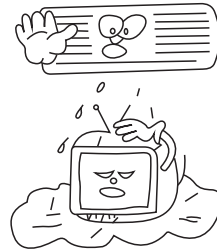


Safety Notice

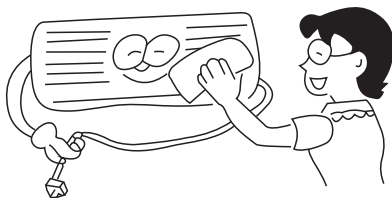
- Keep the room well ventilated, especially in rooms where burners are used.



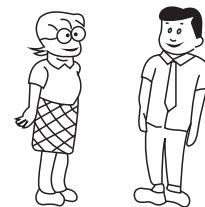
- Do not place other electrical appliance under the air conditioner.



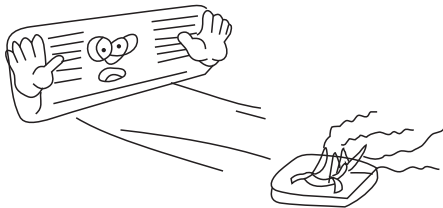
- Disconnect the appliance when cleaning. Unplug the appliance when operation of the appliance stops. Make sure that fan stops before cleaning.



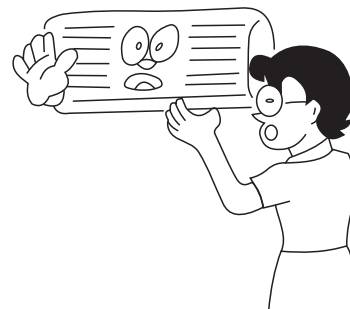
- Unplug the appliance in the event of abnormal operation and contact a distributor or the after-sales service for repair.



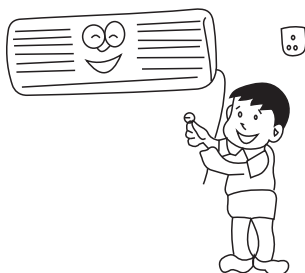
- Keep gas burners away from moving air from the appliance.



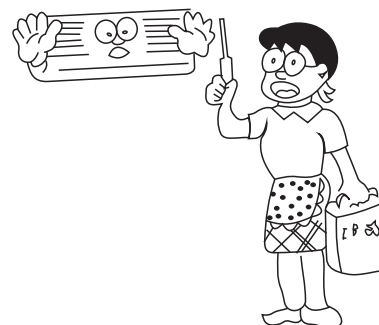
- Only qualified professionals should move the appliance for reinstallation. Contact the distributor or after-sales service for assistance.



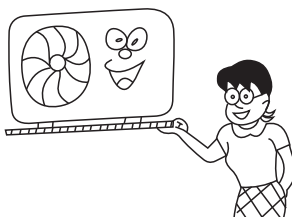
- Unplug the appliance when operation is suspended for long periods.



- Only qualified professionals should repair the appliance. Contact the distributor or after-sales service for assistance.

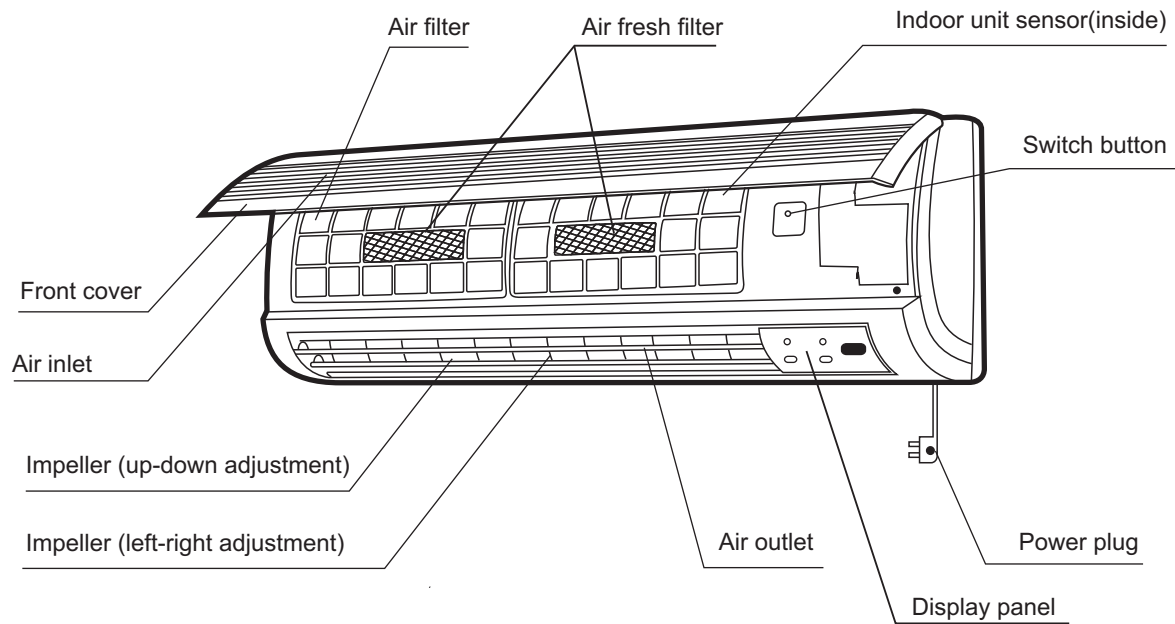


- Regularly check the securing bolts and support rack of the outdoor unit.

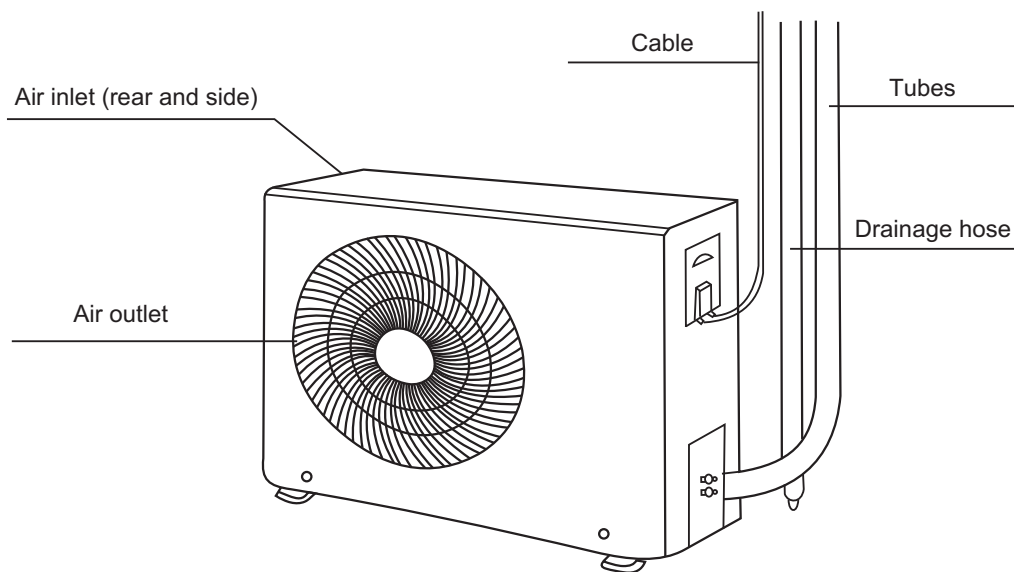


Components Introduction

INDOOR UNIT

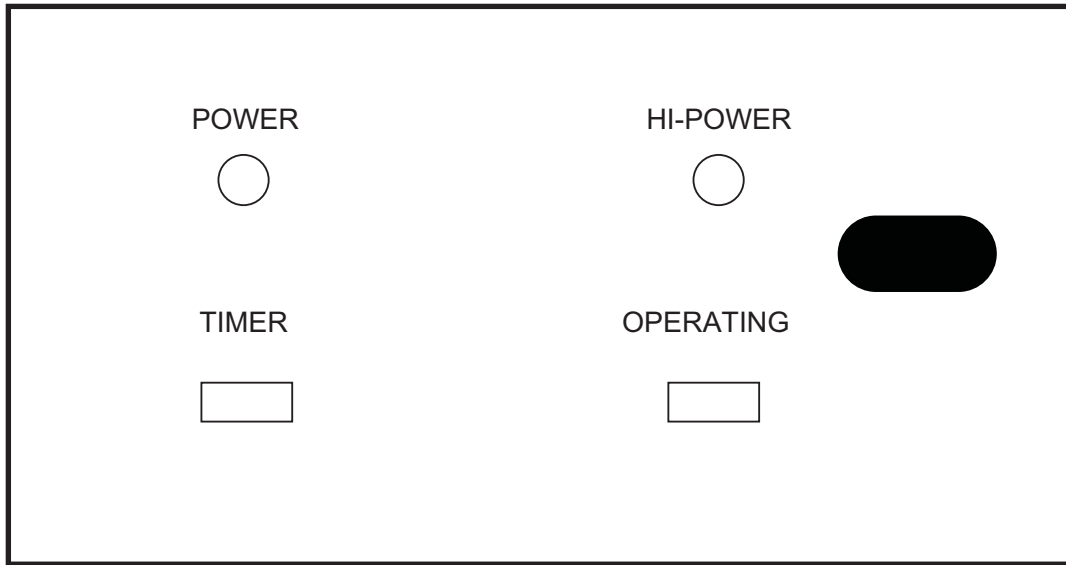


OUTDOOR UNIT



Components Introduction

INDOOR UNIT DISPLAY PANEL

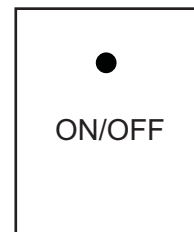


Each part stands for:

1. Power indicator illuminating means the appliance in operating condition.
2. Timer indicator illuminating means the appliance in timer or sleep condition.
3. Operating indicator illuminating means the compressor in work condition.
4. Hi-power indicator illuminating means the appliance in hi-power condition.

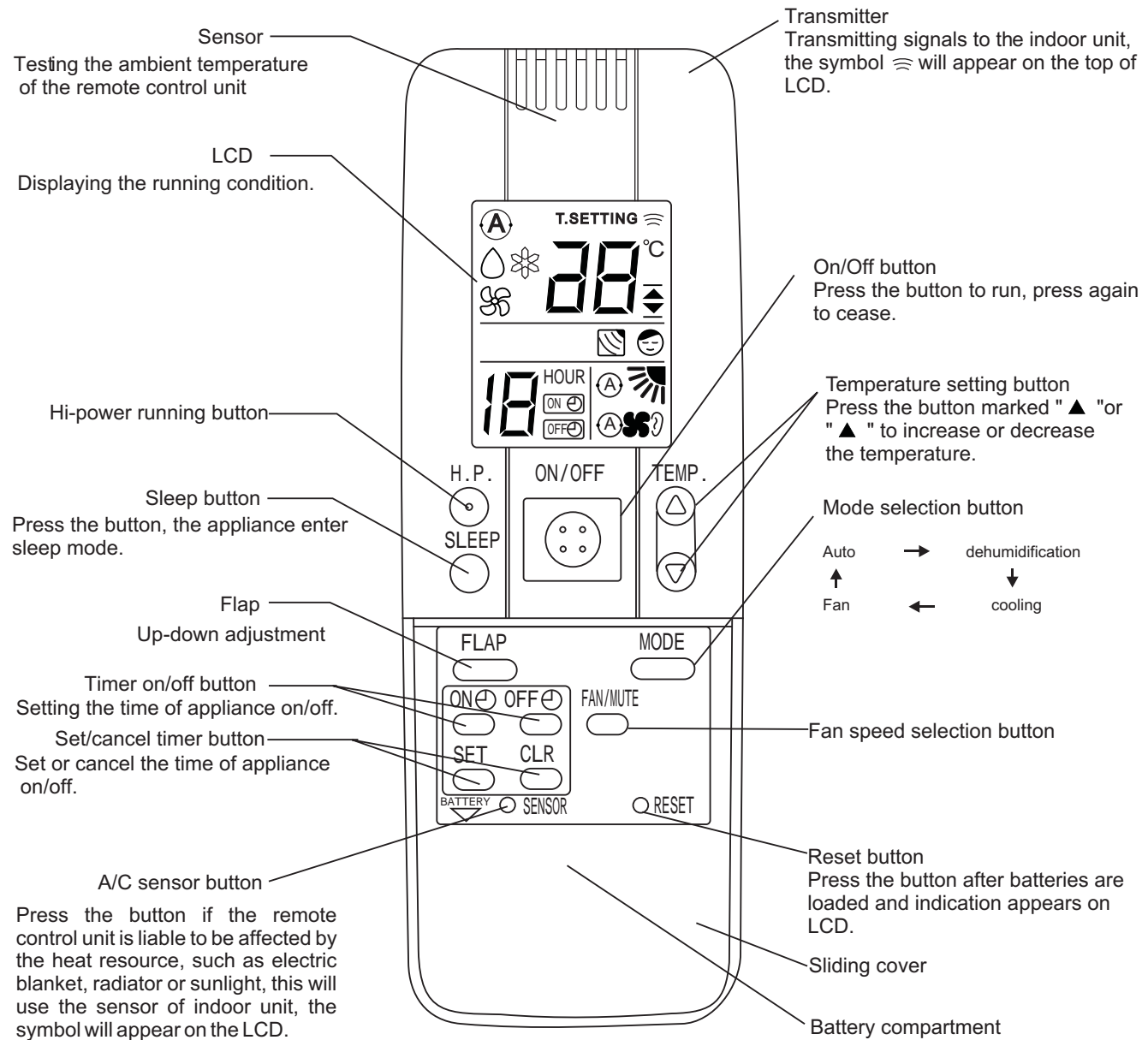
INDOOR UNIT SWITCH PANEL

Indoor unit switch panel is under the front cover, it can be used while remote control unit is bad or losing.



Components Introduction

REMOTE CONTROL UNIT



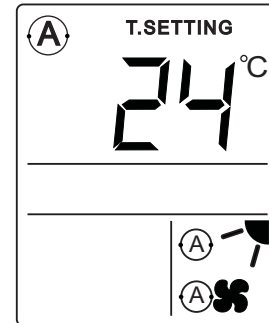
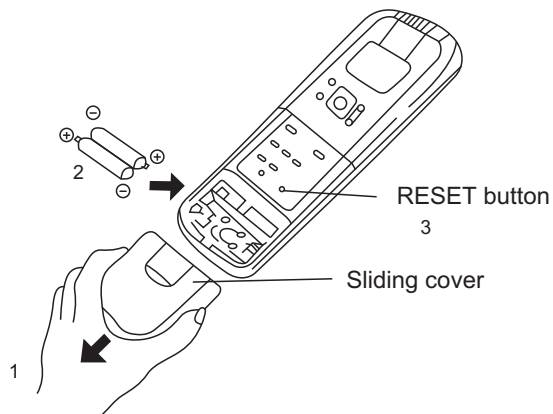
COMMONSENSE

- Remove the batteries in the remote control unit when it is not used for a long period.
- Replace the batteries when the indication on the LCD of the remote control unit is faint, or the remote control unit cannot be set or operated.
- Properly dispose of used batteries.
- Keep the remote control unit away from cold or hot air, sunlight or heat sources.
- Contact the local distributor if the receiver in the appliance does not work in a room illuminated by fluorescent tubes.
- Remote control unit must be used within its effective range or the timer and the temperature control will not function properly.
- Control will fail if two of the same model appliances are installed in the same room.
- If the remote control unit is fixed on the wall, press the On/Off button to ensure that the appliance is receiving a signal from the device.

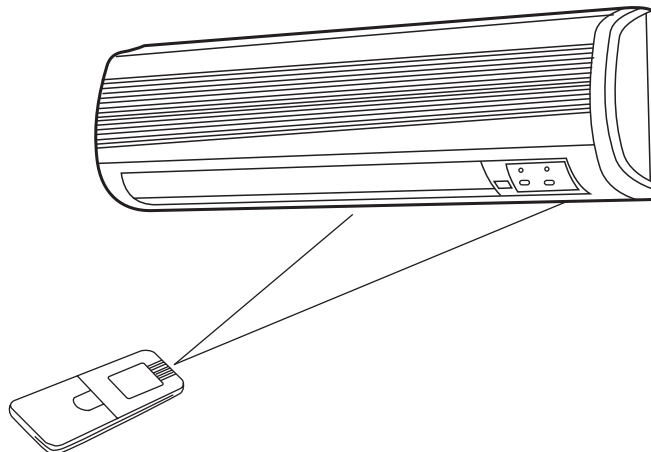
Components Introduction

HOW TO USE REMOTE CONTROL UNIT

- Install the battery



After replacement of batteries, the LCD on the remote control unit will display the status.



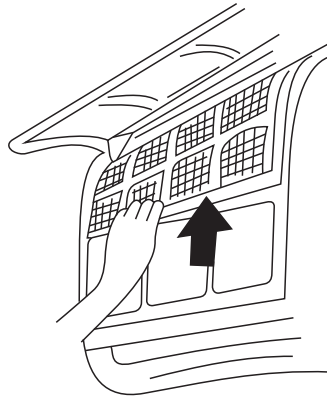
COMMONSENSE

- Please make the remote control unit transmitter aim at the receiver of indoor unit.
- There shouldn't have any obstacle between the remote control unit transmitter and the receiver of indoor unit.
- Don't throw and break the remote control unit.

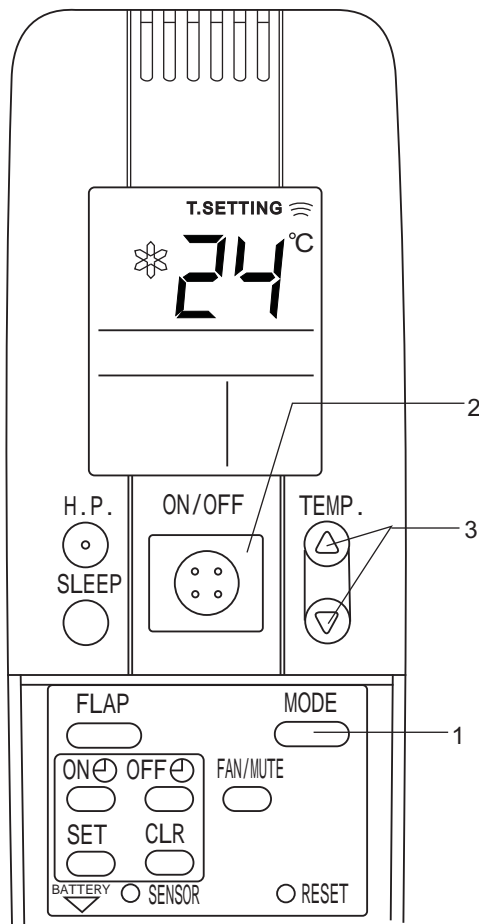
Operation Manual

PREPARATION BEFORE RUNNING

Raise the front cover, and then install the air filter.



MANUAL OPERATION (COOLING, DEHUMIDIFICATION, FAN)



- Basic operation

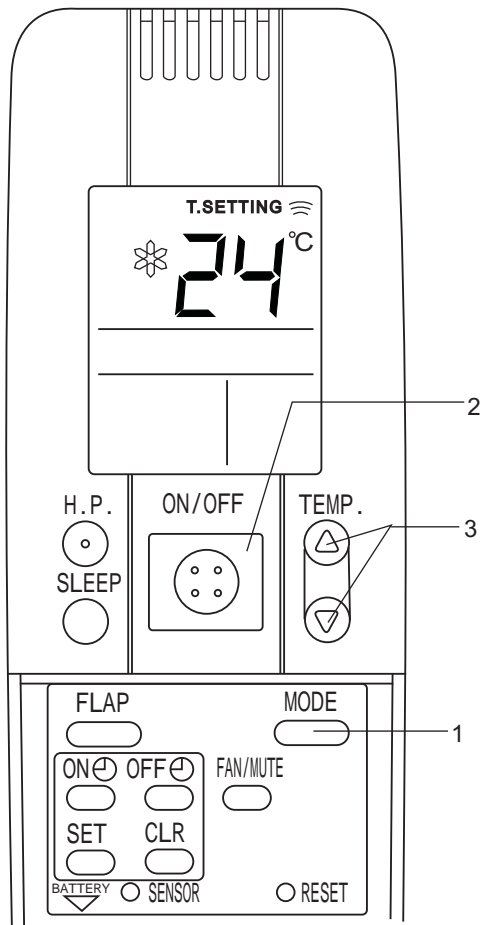
1. Before running the appliance, press the "MODE" for selection one mode of the dehumidification, cooling and fan.
2. Press the "ON/OFF" button to start the appliance.
3. Press the "TEMP." button to set the temperature you wish.

COMMONSENSE

A certain period of time is required to reach the desired temperature since the air of room cycles all the time. When appliance works in cooling and dehumidification mode, if blocked by accumulated water drops, then air filter should be cleaned and air fresh filter should be cleaned or replaced.

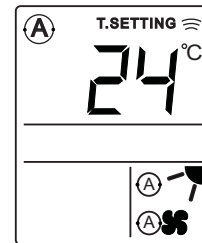
Operation Manual

AUTO RUN

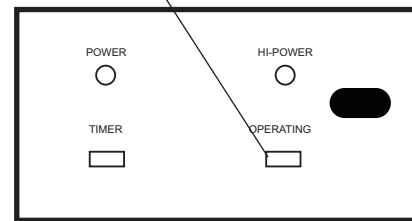


● Basic operation

1. Press the "MODE" button for selection of the "AUTO" function for automatic cessation of the appliance.
2. Press the "ON/OFF" button and the appliance is then set in automatic mode.



Illuminating

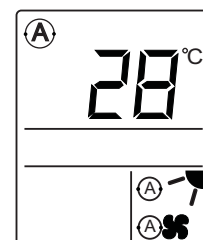
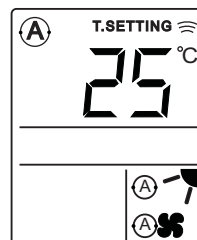
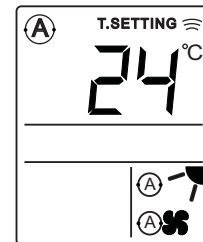
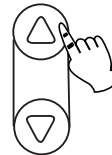


Press again the "ON/OFF" button to cease the operation of the appliance.

3. Temperature Setting

Each press of the "TEMP." will result in a temperature adjustment of 1°C.

A few seconds later, the room temperature will be displayed on the LCD of remote control unit.

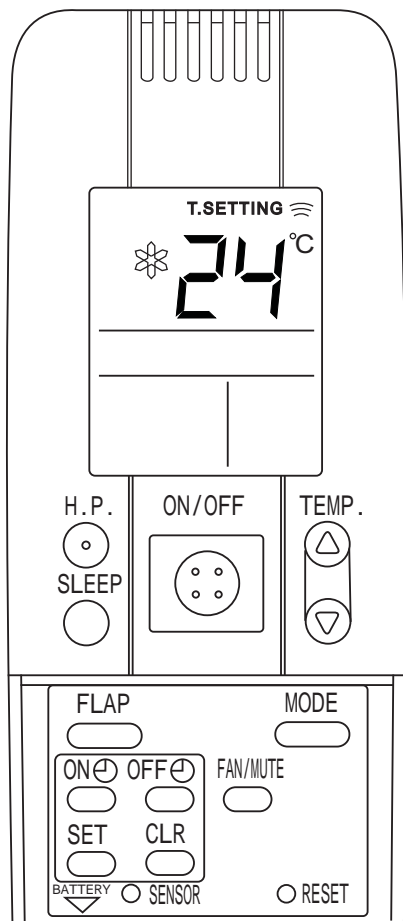


NOTICE:





The appliance is designed to control the function of operating mode automatically, as well as airflow and air direction, according to the temperature in the room detected by the appliance or the setting. A time lapse of a few seconds will occur before alteration of airflow.

Operation Manual

FAN SPEED AND DIRECTION ADJUSTMENT



Basic operation

- When the appliance works, press "FAN/MUTE" change airflow speed.
Press "FAN/MUTE" each time, indoor unit fan speed can be altered among (A) , , , .

- When the appliance works, press "FLAP" change vertical airflow direction.

Press "FLAP" each time, fan impeller will appears the following in turn:



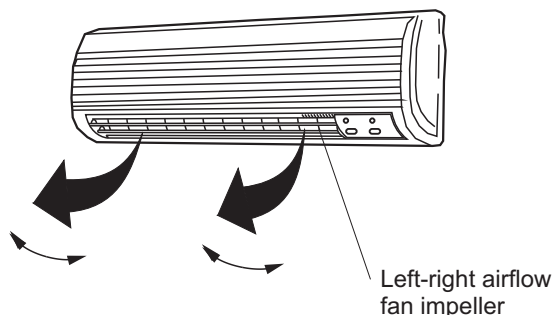
1. Vertical airflow adjustment

Fan auto mode: fan impeller sways between 6 and 3 in cooling and dehumidification mode.

Fan sweep mode: fan impeller sways from top and bottom.

2. Horizontal airflow adjustment

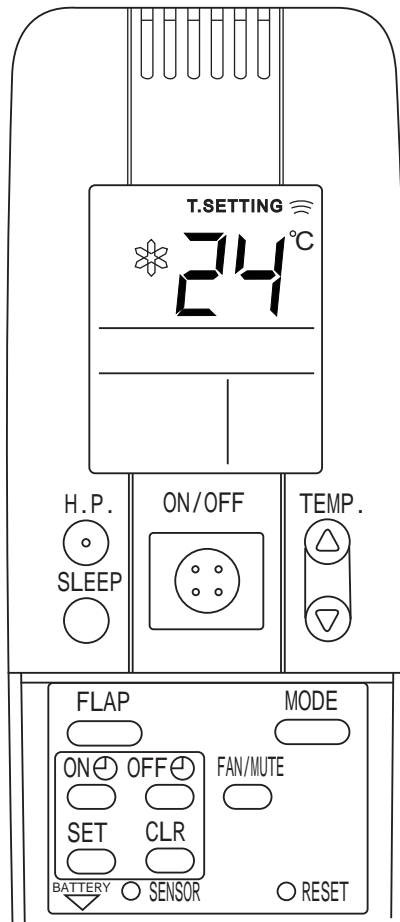
Adjust horizontal airflow by pushing the left-right fan impeller with hands.



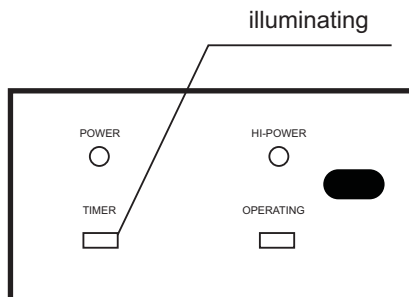
- When the appliance works in dehumidification mode, fan speed is low and can not be altered.
- The remote control unit can be used to adjust the air direction. Manual adjustment may result in conflict between the actual position and the desired position by the remote control unit. Turn off the appliance with the remote control unit and restart the appliance after the fan impeller is completely closed.
- Water drops may accumulate around the air inlet if the appliance is operated for cooling in humid seasons or for dehumidifying. Adjust the fan impeller correctly.
- Never attempt to touch the rotating fan impeller for whatever reason.

Operation Manual

TIMER SWITCH ON/OFF



The timer switch illuminates when the timer is set.



- Postponed Start Setting

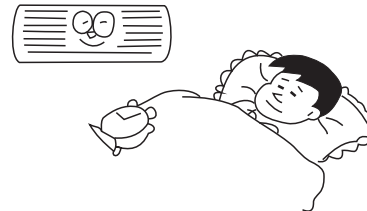
The appliance will start operating after the period set by the timer.

When the appliance is set in the "Cooling" mode, a desired temperature will be reached after a desired set time (the reservation function).



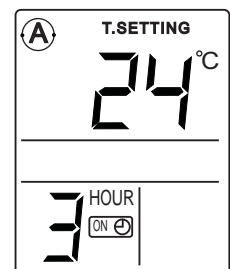
- Postponed cessation setting

Set the time for cessation of the appliance, the appliance will then stop operating upon expiry of the set period.

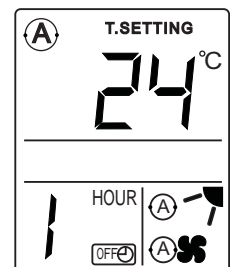


1. Press the "ON \oplus / OFF \ominus " button. Each press will alter the hour indication by one. Maximum number is 12.

For example: If you wish the appliance start three hours later.



For example: If you wish the appliance stop one hour later.

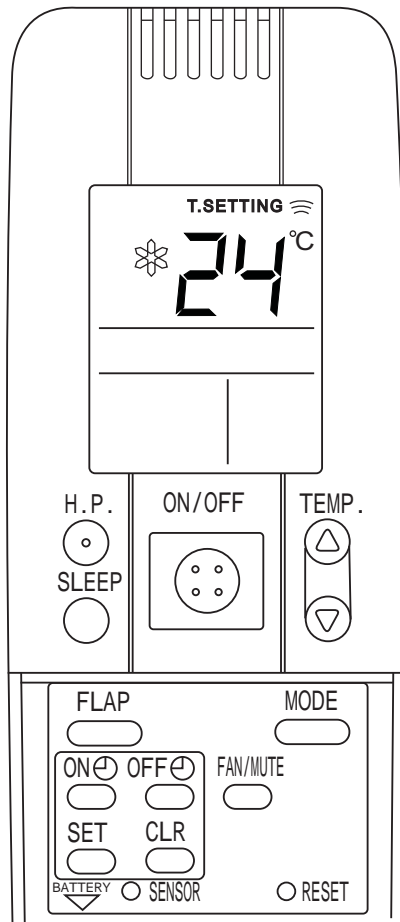


2. Press the "SET" button to confirm the time setting.

Press the "CLR" button to inactivate the time setting.

Operation Manual

SLEEP SETTING MODE/HI-POWER OPERATION/AIR FRESHING

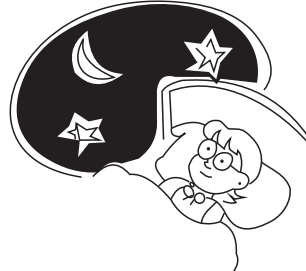


- Air freshening

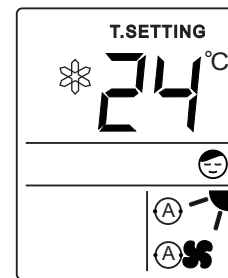
When appliance works, the air fresh filter of indoor unit can effectively filter, absorb and decompose harmful ingredient.

- Sleep Setting Mode

This mode can be manually set to save energy while maintaining a desired well conditioned atmosphere at night.



Press the "SLEEP" button during dehumidifying and cooling.



Cancellation of "SLEEP"
Press the "SLEEP" button once.

- Hi-power operation

The appliance set in this mode will produce lower temperature air than ordinary condition. This function can make you feel comfortable rapidly in summer.

Press "H.P." button, the appliance start to work in this mode.

Press "H.P." button again, to cancel this mode.

EMERGENCY OPERATION

Open the front cover, the switch panel can be found.

Press the "ON/OFF" button to start the appliance, and in this condition the appliance will automatically select operating mode in terms of indoor temperature.

Press the "ON/OFF" button again to cease the appliance.

NOTICE:

The operation can be only used while remote control unit is bad or losing. Moreover, don't often press the button.

Maintenance



CAUTION

Cuts and abrasions may result from contact with the sharp components inside the appliance.
Clean the air filter once very two weeks.

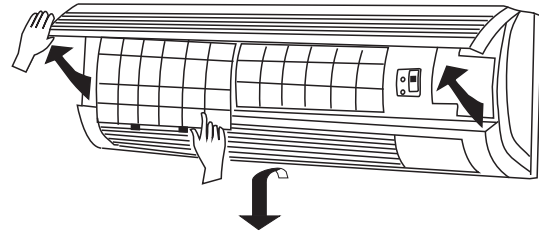
1. Cleaning of indoor unit

- Wipe the indoor unit with a dry soft cloth damped in 40 °C water.



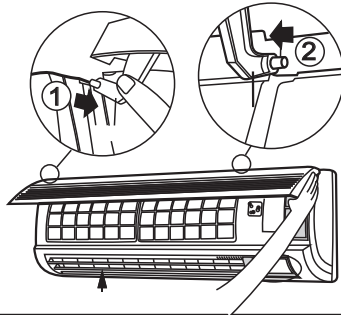
3. Cleaning the air filter

- Raise the front cover and take out the air filter.

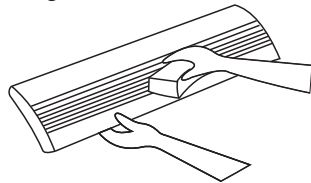


2. Front cover cleaning

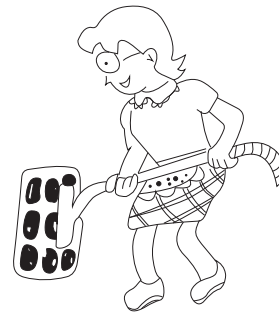
- In terms of the operation shown as picture, unload the front cover.



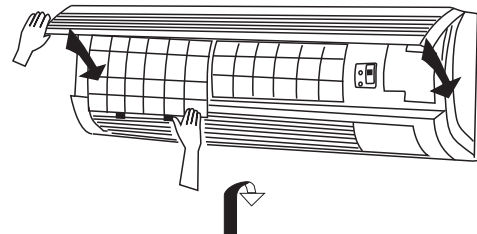
- Wipe and dry the front cover with a sponge or similar substance.
Mild detergent can be used for excessive dirt.



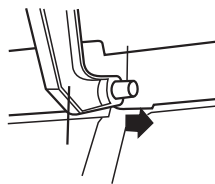
- After cleaning the dirt of the air filter, please wash the air filter by water then dry it.



- Install the air filter and hold both sides of the front cover as shown by the arrows.



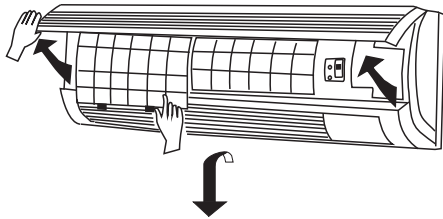
- In terms of the operation shown as picture, load the front cover.



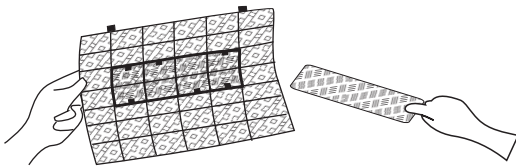
Maintenance

4. Cleaning and replacement of air fresh filter

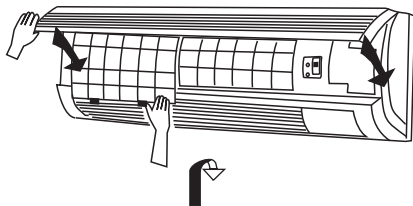
- Raise the front cover and take out the air filter.



- Take out the dirty air fresh filter from the air filter.
- There are two kinds of air fresh filter, the photocatalyst health filter can be used again after washed by water and dried; the electrostatic air cleaning filter should be replaced with a new one.

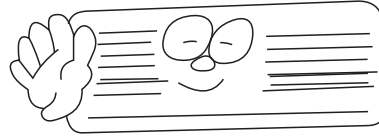


- Install the air fresh filter onto the air filter and close the front cover as shown by the arrows.

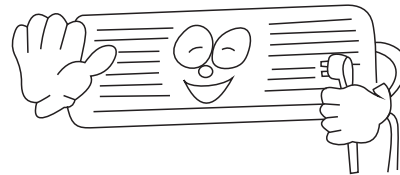


5. Long-term cessation

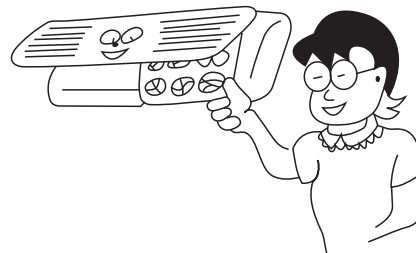
- Warm and air the inside to dry the appliance.



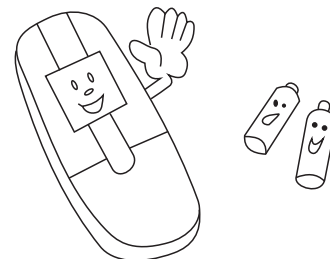
- Before unplug the appliance for cessation of operation, press "ON/OFF" button to cease the appliance, then pull out the power plug.



- Clean the air filter and take out the air fresh filter.

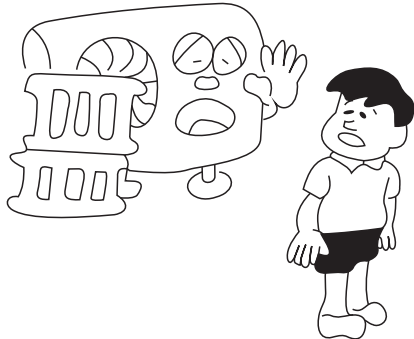


- Remove the batteries from the remote control unit.

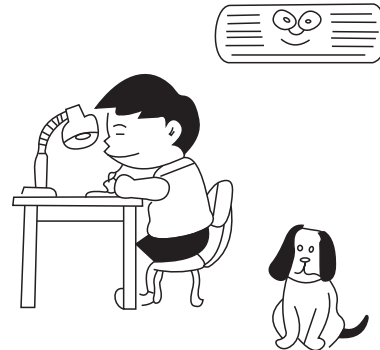


Wise Operation

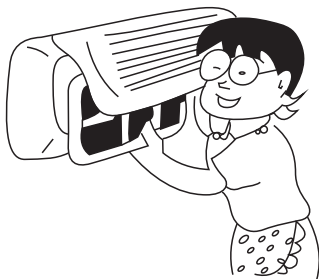
- Blockage of the air inlet or outlet may reduce the cooling capacity of the appliance.



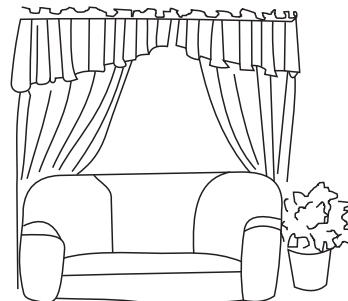
- Excessively low temperature setting may be harmful to health and will result in high power consumption.



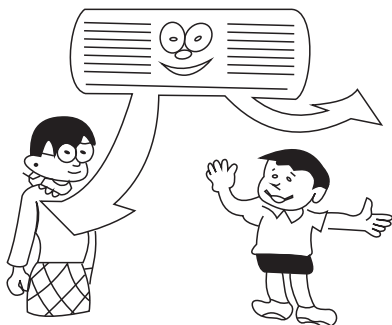
- Cooling capacity can be reduced by accumulated dirt on the air filter. Clean the air filter when noise is heard or water drops accumulate at the outlet.



- Make sure windows and doors are properly closed. Draft strips are recommended for use in summer.
- Window blind reduces 15% of sunlight and window strips reduce 50%.



- Adjust the wind direction to level for cooling.
- Please use the timer reasonably to save consumption.



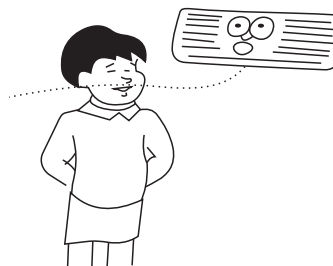
- Properly set the temperature.
- When setting for cooling, the most desirable difference between inside and outside temperature is 5 . 1 increase of the set temperature will save 10% of power consumption.

Trouble Shooting

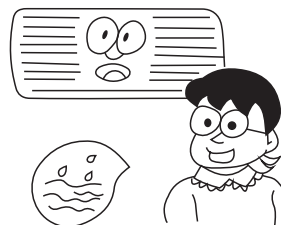
- Failure of airflow conversion
Airflow cannot be altered when the dehumidification are started.



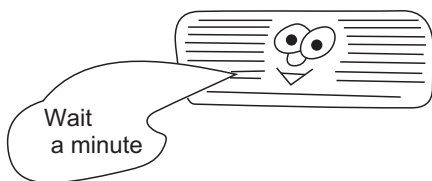
- Strange odor
Odors from wall carpet or clothing will be absorbed and transmitted by the appliance.



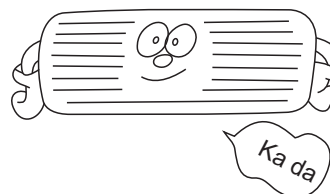
- Sound of water flow
From circulating refrigerant inside.



- Postponed operation
The safety function postpones 3 or 5 minutes before operation after the appliance is connected to the power supply.



- Strange sound
Caused by shrinkage due to coldness.

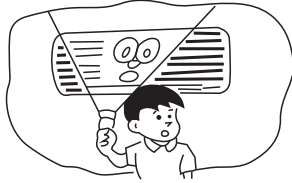


Trouble Shooting

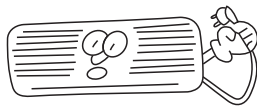
Make sure any of the following circumstances occurs:

Failure of Operation

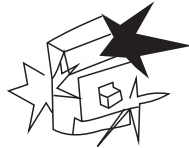
- Power failure
Operation of the appliance will be recovered after failure of power supply.



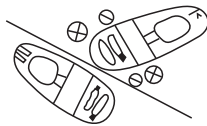
- Power is disconnected



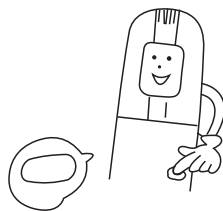
- Short circuit or blown fuse



- Batteries in the remote control unit are exhausted or incorrectly inserted.

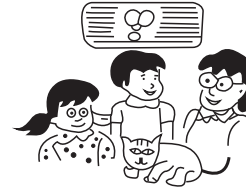


- The button "RESET" is not pressed.



Failure of Desired Cooling Capacity

- Sleep mode for energy-saving
- Excessive people in the room



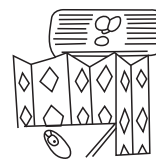
- Door or window are not closed.



- Low fan speed is set.



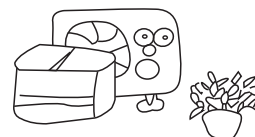
- Temperature is set too high for cooling.
- Signal from the remote control unit is out of reach of the indoor unit receiver.



- Air filter is blocked by dirt.



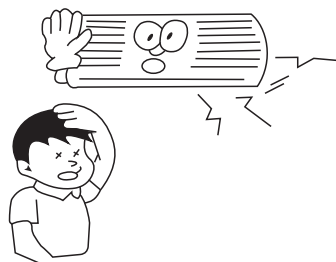
- Excessive storage around the outdoor unit.



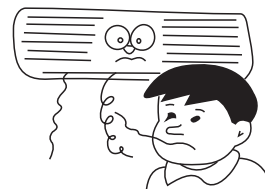
Trouble Shooting

Contact the after-sales service for repair should any of the following events occur (see the Warranty Card).

- Strange sound



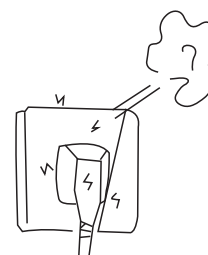
- Burned smell



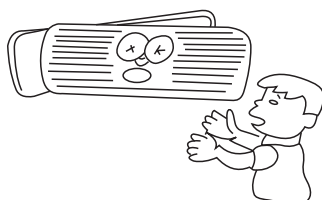
- Water leakage from indoor unit



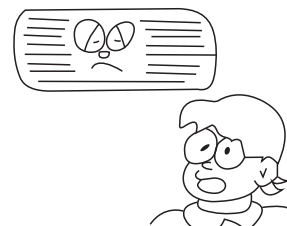
- Hot power plug



- Loosed or corroded support rack



- Blown fuse or circuit breaker trip



Additional Information

- After a long period of operation, the safety device starts, and sometimes the appliance cannot be operated.
- Water drops may accumulate on the surface of the appliance in a rainy screen or a long period of cooling or dehumidification
- The appliance must be used in a proper area as regulated.
- The air filter must be regularly cleaned to prevent water accumulation caused by dirt blockage.
- Desired temperature may not be reached for restriction of ambient temperature or blockage of the air filter .

Unplug the appliance for any of the following:

- Long term cessation
- Lighting and thundering weather
- Maintenance
- Suspicious problem

Voltage abnormal protection

- Operation of the appliance will cease when abnormal voltages are encountered.

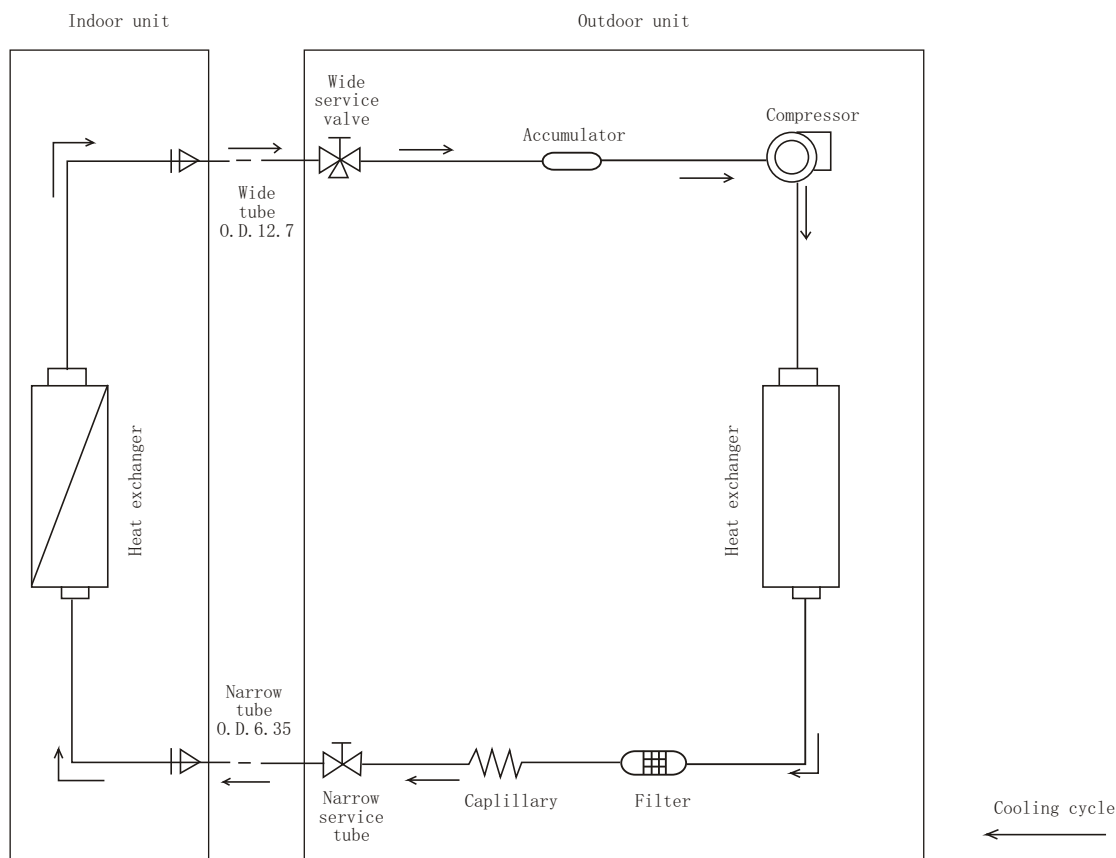
Technical Tables and Diagrams

1. PERMITTED AMBIENT TEMPERATURE FOR THE AIR CONDITIONER IS AS FOLLOWING: $+18^{\circ}\text{C} \sim +43^{\circ}\text{C}$ (GB/T 7725-1996).

2. MAIN SPECIFICATIONS OF THE PRODUCT

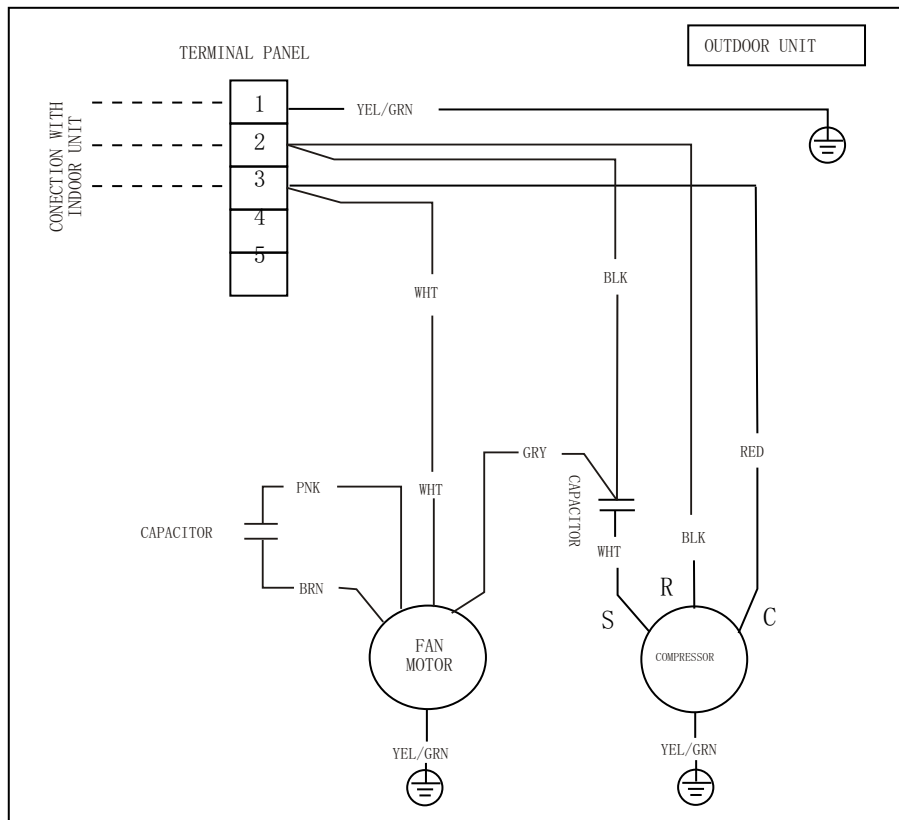
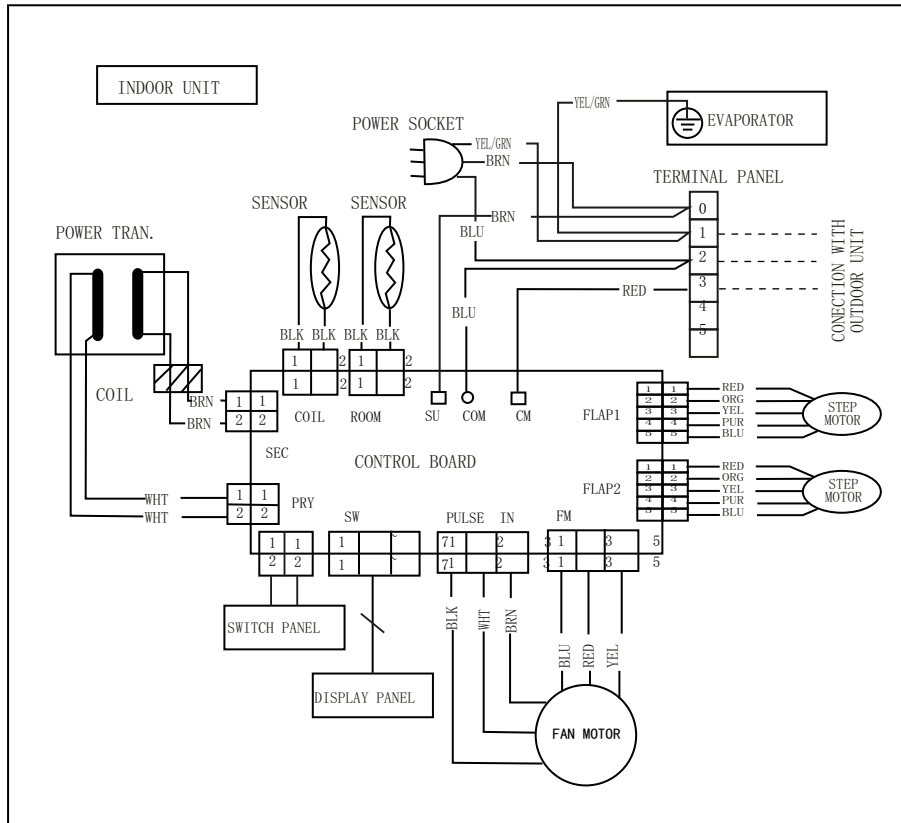
Model	KF—5002GWE
Rated voltage	AC, 220V-230V
Voltage range	220V
Rated frequency	50Hz
Rated input power cooling	1.92kW
Capacity cooling	5.0kW
Circular airflow(high)	750m ³ /h
Refrigerant/quantity	R22/1.85kg
Weight (indoor unit/outdoor unit)	13.0kg/54.0kg
Max. Remote control distance/angle range	8m/80°

3. REFRIGERANT FLOW DIAGRAM



Technical Tables and Diagrams

4. ELECTRICAL WIRING DIAGRAM



Appendix: Installation

1. SUMMARY

1.1 Notice

This operation manual has explicit information for installation and maintenance in most conditions. Contact the local distributor or after-sales service for further information.

1) Wiring notice

- Only qualified professionals should carry out wiring of the appliance.
- Disconnect the power supply before completion of wiring, piping or checking the appliance.
- Voltages generated by the appliance is fatal.
Read the electrical schematic diagram and explanation before installation. Improper installation and earth connection may result in fatal injury.
- Connect the earth as required by local regulations.
- Tightly fasten all the wiring connections to prevent overheating or fire.
- Special power, switches and sockets are required for the power supply of the appliance.
- Electric meter capacity must be larger than or equivalent to 16A.

Remark per EMC Directive 89/336/EEC

To prevent flicker impression during the start of the compressor (Technical Process) and the adversely influence caused by the 2nd harmonics of compressor following installation conditions do apply

1. The power connection for the air conditioner has to be done at the main power distribution. This distribution has to be of a low impedance is reached at 32A fusing point.
2. No other equipment has to be connected to this power line.
3. For the detailed installation acceptance please refer to your contract with the power supplier, if restrictions do apply for products like washing machines, air conditioners or electrical ovens.
4. For the details of the power of air conditioner, please refer to the rating plate of the product.
5. For any question contact your local dealer.

2). Transport

- Carefully move the outdoor unit.

3). Installation

- When the appliance is mounted to the ceiling or the wall,
 - Make sure that the ceiling or the wall is strong enough for the appliance.
 - Make a wood or metal frame to support the appliance if necessary.
- When the appliance is mounted in a room,
 - Properly insulate the outdoor unit, and make sure there is no moisture on the appliance or on the floor.
- When the appliance is installed on a damp or uneven area,
 - Make a flat concrete base and place the base under the outdoor unit.
- When the appliance is installed in an area of strong winds,
 - Using firm bolts and metal frames to fix the properly covered outdoor unit.
- When the appliance (Model Heat Pump) is installed in an area of heavy snow.
 - The outdoor unit must be installed in a position above the snow accumulation.

4). Connection

- Use the shortest tubes possible
- Using a flaring method
- Smear some refrigeration oil between the flared surface and the connected tube.
- Fasten the nuts with a torque wrench to prevent leakage of refrigerant.
- Check for leakage before trial operation.

5). Maintenance

- Disconnect the power before checking the electrical components and the circuits.
- Avoid contact with the moving parts of the appliance.
- Clear the site and make sure there is no installation debris left in the appliance.

6). Other

- Keep the room well ventilated during installation.

1.2 Installing instruction

Read the operation manual before installation and keep this manual in a safe place.

1) Tools

1. Screwdriver
2. Phillips head screwdriver
3. Knife or wire stripper
4. Steel ruler
5. Spirit level
6. Hammer
7. Percussion drill
8. Tube cutter
9. Pipe flarer
10. Pipe bender
11. Adjustable spanner

2) Attachment

(see the packing list)

3) Parts Package

Copper tubes, components and insulation materials for the outdoor unit.

4) Type of the copper tube and insulation materials

1. Table 1 indicates that tubes should be cut with an additional length of 30cm-40cm, to reduce the vibration from the outdoor unit.

ITEM	Narrow tube		Wide tube	
	Outside Diameter	Thickness	Outside Diameter	Thickness
KF-5002GWE	6.35mm	0.8mm	12.7mm	0.8mm

2. The insulation materials for the copper tubes should conform to the required length and the wall thickness should not be less than 8mm.

3. Insulated copper wires should be used for wiring and the specification should depend on the length.

5) Additional materials for installation

1. white tape
2. nails or clips (as required)
3. putty
4. refrigeration oil
5. clips for fixing refrigerant tubes

Appendix: Installation

2. INSTALLATION LOCATION

2.1 Indoor unit



WARNING

Maintain the required space around the appliance to prevent overheat.

The location for installation of the appliance should not be in an area with the following:

- Direct sunlight
- Heat resource
- Inflammable gas
- Thick oil fog

The appliance should be installed in an area,

- Where the inside space can be evenly conditioned, or
- Which is strong enough for the appliance, or,
- Having the shortest distance for the copper tubes and water drain hose, and
- Having desired space around the appliance for maintenance and ventilation.(Figure 1)

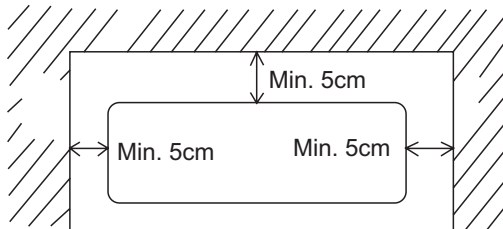


Figure 1

Tube arrangement

L	H	Added Refrigerant (g/m)	Provided Tube(M)
15	7	20	4

L: Maximum length of the tube connecting the indoor unit and the outdoor unit.

H: The height difference between the indoor unit and the outdoor unit.

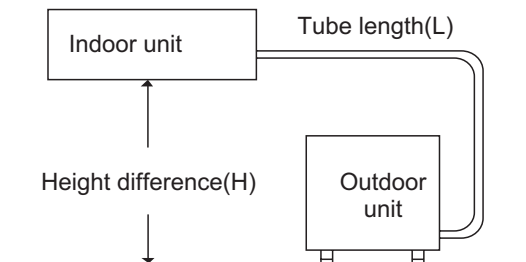


Figure 2

* If the length of the tube is exceed 7m, an additional 20g/m of refrigerant should be added per 1m.



WARNING

The indoor unit should not be installed below a height of 1.8m.

2.2 Outdoor unit

The outdoor unit should be installed away from the following:

- Heat source and fan exhausting (Figure 3);
- Director sunlight;

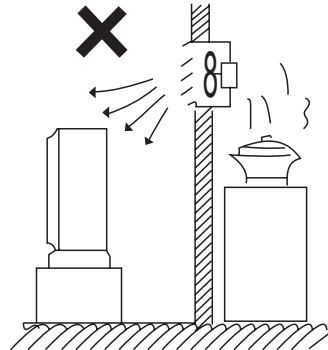


Figure 3

The outdoor unit should be installed in an area with,

- Cool temperature;
- Good ventilation;
- Desired space for air inlet, outlet and maintenance (Figure 4)

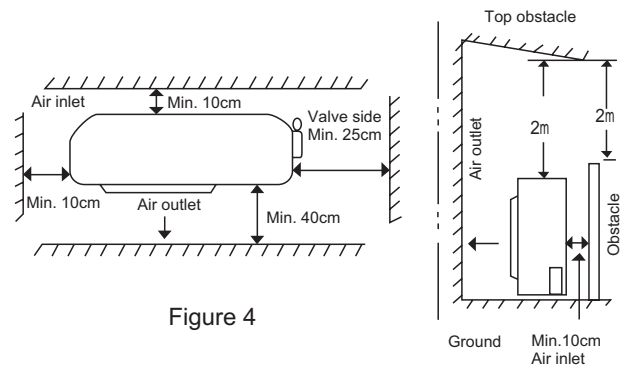
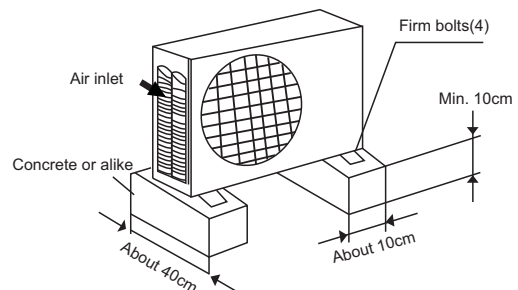


Figure 4

- Strong base (10x10cm² concrete or alike). The appliance should be placed not less than 10cm high (Figure 5).



- Fix the base with firm bolts to reduce vibration and noise.

Appendix: Installation

3. INSTALLATION OF INDOOR UNIT

3.1 Take off the back cover

- 1) Release the clips as shown by the mark "△" on the back cover.
- 2) Take off the back cover.

3.2 Drilling

- 1) Locate the back cover of the indoor unit on the wall, and determine the desired place with a spirit level and a ruler. Before drilling, do not fix the back cover onto the wall.
- 2) According to direction of the tube, drilling for tubes according to the location of the appliance. It is recommended that the rear right be used for wiring and drilling.
- 3) Drill a 65mm hole in the wall (Figure 6), make sure the hole is inclining to the outside.

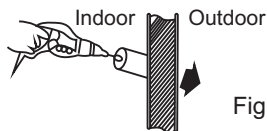


Figure 6



CAUTION

Before drilling, make sure that there is no electric cable or pipe in the area of the wall where the hole is to be drilled.

3.3 Installation of the back cover

- 1) check with a spirit level that the back cover is installed horizontally. (Figure 7)

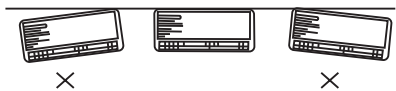


Figure 7

- 2) fix the back cover to the wall with the screws provided. (Figure 8). Make sure that the back cover is firmly fixed to the wall.

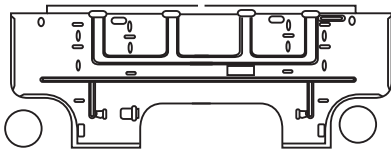


Figure 8

3.4 Install the indoor unit

- 1) Thread the cable through the hole in the wall, an additional 13cm of slack power cable should remain inside the room. (Figure 9)

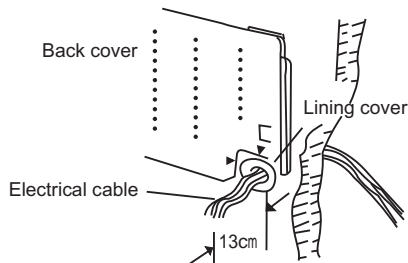


Figure 9

- 2) Unload the bottom cover of indoor unit with flat screw driver, and according to direction of lining tube, leave the cutting part of left bottom or right bottom cover with saw. (figure 10)

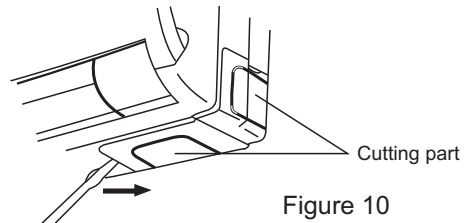


Figure 10

- 3) Bind the electrical cable drainage hose, refrigerant tube, air exchange tube together tightly with white adhesive tape; the electrical cable, refrigerant tube and the electrical cable are fixed on the back of indoor unit with wedged slab, bend the refrigeration tube and make the electrical cable and the air exchange tube through hole of the wall smoothly (figure 11).

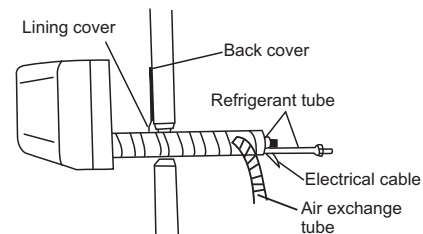


Figure 11

- 4) Install the dismantled bottom cover to indoor unit (figure 12).

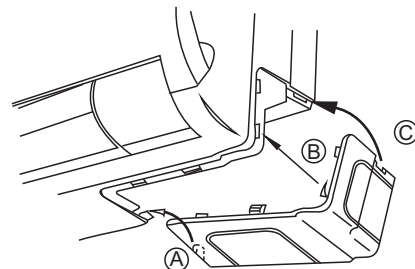


Figure 12

- 5) Adjust the position of the indoor unit, fixing it firmly onto the back cover (figure 13).

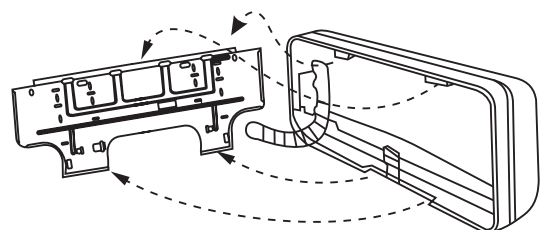


Figure 13

Appendix: Installation

3.5 Wiring

- (1) Before wiring, make sure the rated voltage indicated on the nameplate conforms to the local power voltage.
- (2) Wiring should be carried out in accordance with the instructions on the electrical schematic diagram (Figure 14).

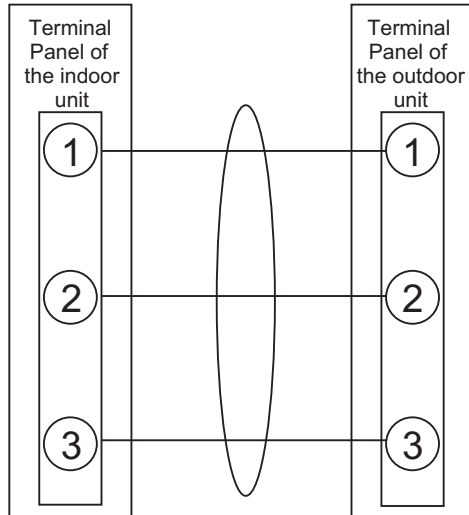


Figure 14



WARNING

- Wiring for connection of the indoor unit and the outdoor unit should be conducted in accordance with local regulations.
- Wiring connections must be fitted firmly.
- The electrical wires should not be in contact with any of the refrigeration tubes, compressor or other moving parts or components.
- The appliance must be connected to a good earth.

4. INSTALLATION OF THE OUTDOOR UNIT

Properly locate the outdoor unit as described by the Section 2. If the outdoor unit is to be mounted on the wall, make sure that the wall and the support are strong enough for the appliance.

Wiring Connection

- 1) Release the fixing screws and take off the side cover.
- 2) Connect the terminals on the heat pump as required in the Figure 14 and the Figure 17:
- 3) Always save an extra 10cm length of the electrical cable:
- 4) Earth the appliance according to related regulations of electrical engineering:
- 5) Fix the connected terminals with clips and replace the side cover if the connection is assured according to the wiring diagram:

3.6 Wiring connection of the indoor unit

- 1) Hold pull and open the front cover.
- 2) Release the screws and open the wire distribution cover (Figure 15).

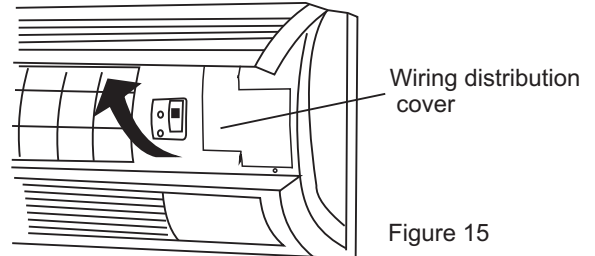


Figure 15

- 3) Connecting cable should be placed along the back of the indoor unit to the front for connection.
- 4) Connect the wire distribution terminals and corresponding terminals. (Figure 16)

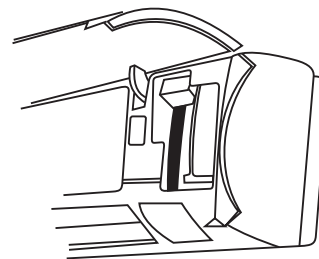


Figure 16

- 5) Check the connections and then fasten the distribution cover and replace the front cover finally.

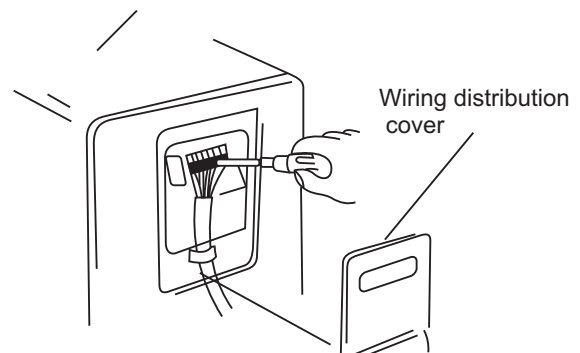


Figure 17

Appendix: Installation

5. REFRIGERANT TUBE

5.1 Flaring the tube

- (1) Cut the tube with a tube cutter to the desired length (30.50cm is recommended)
- (2) Smooth the edge of the copper tube with a reamer or a file. Hold the pipe vertically with one end downward to make sure that no copper scraps fall into the copper tube.

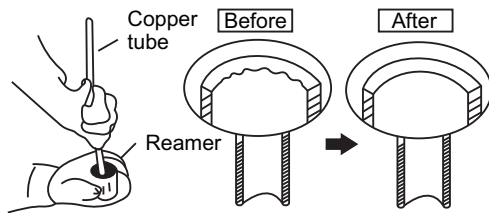


Figure 18a

Figure 18b

- (3) Put the tube flarer on the copper tube.
- (4) Flare the copper tube (Figure 19)

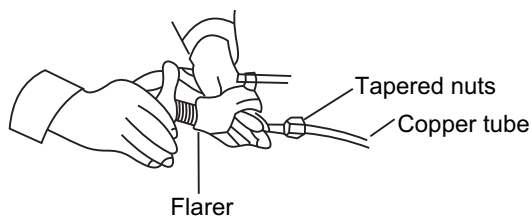


Figure 19

Note: The flared tube should have:

- Smooth internal surface
- Smooth edges
- Consistent length of the tapered surface

5.2 Connection of the tubes

- (1) The sealing tube must be used to prevent dust or water from getting into the tube.
- (2) Before connecting the tube, apply some refrigerant oil on the surface of the flared tube and connections to prevent air leakage. (Figure 20)
- (3) Align the connecting tube and the flared tube, and then turn the tapered nut to connect tightly. (Figure 21)

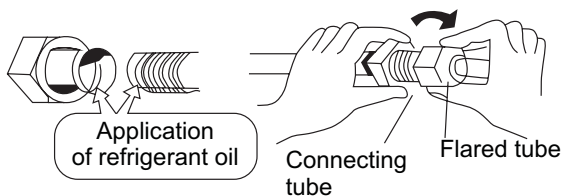


Figure 21

- (4) Fasten the nuts with a spanner.

5.3 Heat insulation of the refrigerant tube

All refrigerant tubes must be insulated with at least 8mm thick insulation materials. (Figure 22)

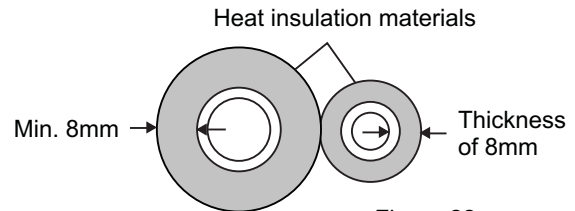


Figure 22

5.4 Wrapping the tubes

- (1) Tie the two refrigeration tubes (including electrical wire if permitted as regulated), water drainage hose with white tape.
- (2) Wrap half of the tubes outside the room starting from the end. (Figure 23)

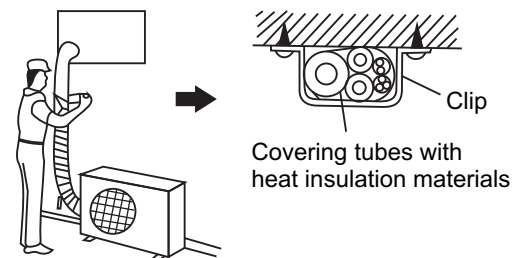


Figure 23

- (3) Fix the wrapped tubes on the wall in clips with a space of 120cm.

Note: Do not tie the tubes too tight as this may reduce heat insulation. Separate water drainage hose and refrigeration tubes to prevent formation of water droplets.

5.5 Ending of installation

After completion of wrapping and insulation, seal the hole on the wall with a suitable sealant.

5.6 Discharge gas

Place appliance A and then B. Air purging method is as follows:

- (1) Turn down the nuts on the wide and narrow tubes.
- (2) Loose the nut of the flared wide tube one complete turn with a spanner.
- (3) Turn counterclockwise to open the core of the valve with a socket screw wrench. Some gas will come out from under the nut of the flared end of the wide tube. Tighten the nut 10 to 15 seconds later.
- (4) Test for leakage at the tube connector with soapy water or a meter. If there is no leakage, turn counterclockwise to open the tube core of the valve on the wide tube with a socket screw wrench.
- (5) Tighten the nuts on the wide, narrow tube valves and the valve cover.

Please contact the technical service for further information.